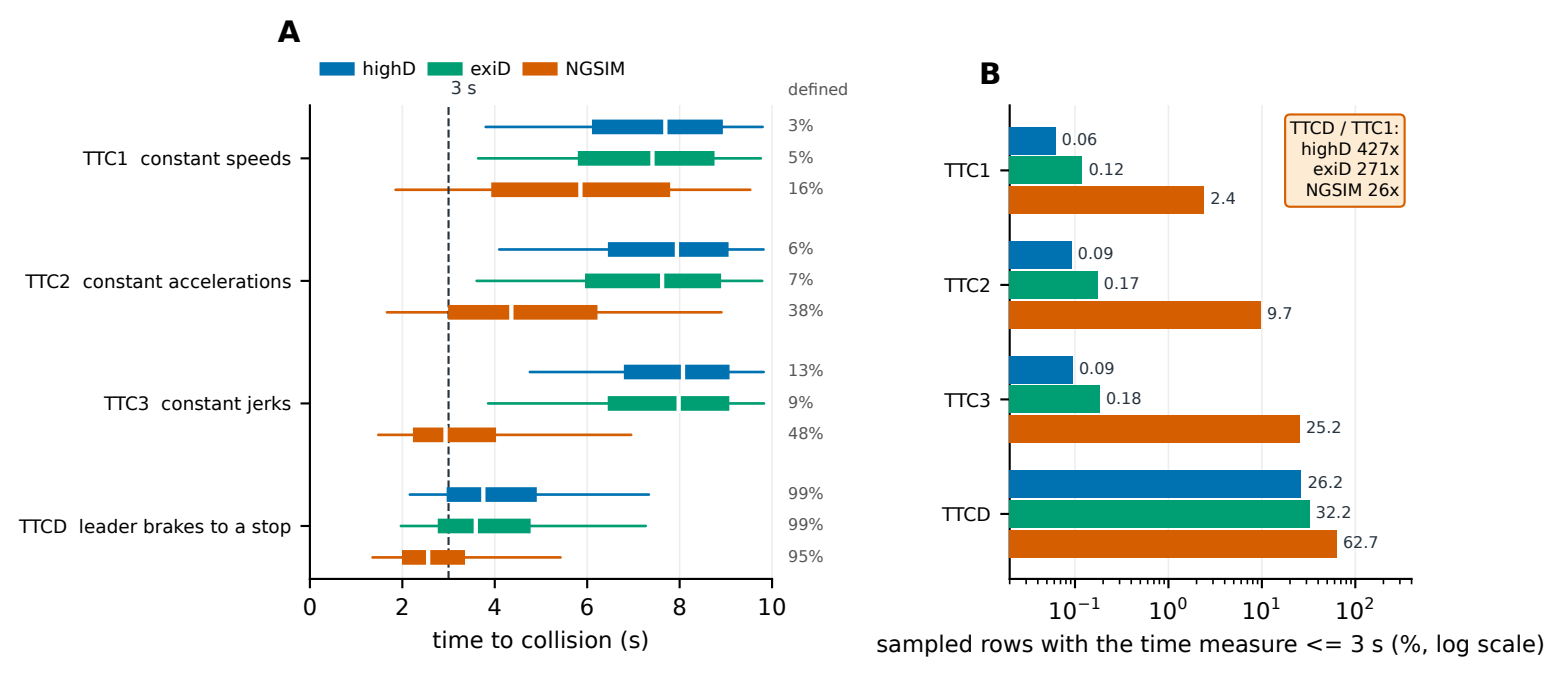

A
highD
exiD
NGSIM
3 s
defined
TTC1 constant speeds
TTC2 constant accelerations
TTC3 constant jerks
TTCD leader brakes to a stop
3%
5%
16%
6%
7%
38%
13%
9%
48%
99%
99%
95%
0
2
4
6
8
10
time to collision (s)
B
TTCD / TTC1:
highD 427x
exiD 271x
NGSIM 26x
TTC1
TTC2
TTC3
TTCD
0.06
0.12
2.4
0.09
0.17
9.7
0.09
0.18
25.2
26.2
32.2
62.7
10^{-1}
10^{0}
10^{1}
10^{2}
sampled rows with the time measure <= 3 s (%, log scale)